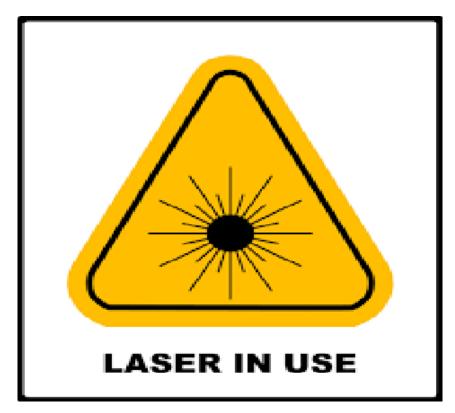
SAFETY GUIDELINES IN PHYSICS LABORATORIES (SGPL)









Risks of working in physics laboratories

 Electric shocks resulting from handling uninsulated electrical wires and improper switches.

 Unsuitable electrical connections for electrical capacities.

 Exposure or direct contact with radioactive materials without using appropriate tweezers.

 Loss or damage to vision as a result of direct exposure to laser beams.

- Exposure to burns as a result of contact with hot surfaces.
- The risk of poisoning or illness as a result of handling chemicals without knowledge in the laboratory.



Guidelines for security and safety in physics laboratories

- Do not tamper with the electric switches, gas or water valves.
- Do not touch the devices until you are sure they are safe.
- Make sure that the current or electrical power of the source is suitable for the device before using it.
- Do not connect any electrical circuit directly without the presence of the supervisor.
- In the event of any emergency, inform the supervisor directly.
- Do not touch the surfaces directly until after checking their temperature.
- Ensure that radioactive materials are cleared in their cabinets and do not handle them without appropriate tweezers.

Laboratory Safety Rules in Physics Department

- Suitable fire extinguishers are available in a prominent place in every physics laboratory, and they are tested periodically.
- **There are smoke detectors in the laboratories for the early detection of fire.**
- A first aid kit is available in every laboratory, and some necessary medicines and medical supplies are insured in it.
- **Each physics lab contains two doors to distribute students 'exit during emergencies.**
- **❖** Lab-Benchs and Lab-Workstation are made of heat and electrically insulating epoxy.
- Student facilities are equipped with a circuit breaker to cut off the power quickly when students at risk.
- Each laboratory is equipped with an electric switchboard with a circuit breaker to cut off the electricity completely from any devices.
- **❖** Department has spacious, adequate ventilation and lighting laboratories taking into account the distribution of students in the laboratories.
- **Each laboratory is provided with safety signs and indicative panels to ensure the safety of students and staff.**
- **At the beginning of the semester, students receive an intensive lecture on security and safety procedures in the laboratory.**

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